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	L 17535-66 EWT(d)/EWT(1)/ETC(f)/EPF(n)-2/EWG(m) IJP(c) WW/AT  ACC NR: AP6006794 SOURCE CODE: UR/0386/66/003/001/0012/0014
	AUTHOR: Kulagin, S. G.; Likhachev, V. M.; Markuzon, Ye. V.; Rabinovich, M. S.;
	ORG: Physics Institute im. P. N. Lebedev, Academy of Sciences SSSR (Fizicheskiy 5 institut Akademii nauk SSSR)
	TITLE: States with inverse population in a pinched discharge  SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu.
	Prilozheniye, v. 3, no. 1, 1966, 12-14  TOPIC TAGS: discharge plasma, plasma pinch, stimulated emission, laser R and D, gas laser, argon
	ABSTRACT: The authors show that states with a negative temperature exist in a
201	emission which coincides with the moment of pile-up. An installation for generating —currents up to 15 Ka with a discharge period of 2-5 usec was used in the experi-
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copper e	lectrodes were	used with an	internal dia	meter of 2.5	cm. The option	cal reso-
nator wa	s made up of tw	o spherical d	ielectric mi	rrors. The c	pefficients of	F reflec-
	the mirrors in					
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source.	The working ga	s was spectra	of stimulat	on at a pressi ed emission a	are or 10 - m	ng.n
sure. E	mission is obse	erved on the 4	765 A line o	f singly ioni	zed argon at p	ressures
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AUTHOR: Kulagin, S. G.; Likhach	ev, V. M.; Rabinovic	h, M. S.; Sutovskiy, V. M.	
ORG: none TITLE: Pulsed argon laser at his	gh-density currents	and low pressures	\$ 7.4 4
SOURCE: Zhurnal prikladnoy spel	ktroskopii, v. 5, no.	4, 1966, 534-535	
TOPIC TAGS: gas laser, argon 1	# 1 at hom	ry currents (up to ~15-20 kamp/cm	ሕ
heavy current pulsed discharge in (internal) diameter. The tu	was achieved in quar bular electrodes, ma	tz tubes 1000 mm long and 10 mm de of tantalum, were 50 mm long	
The cavity consisted of two spherological placed 1500 mm from each other.	one mirrors with a One mirror was sile 90 and 30%, respec	yer coated and the other dielectively). The energy was supplied	3
from condensers with capacities	ting 1-15 kamp puls	es for 15-usec discharge period The experiments were carried from 10-1 to 6 x 10-3 mm Hg. The	
Card 1/2	UDC: 621.	375.9	

ACC NR. AP7004942  AUTHOR: Likhachev, V. M.; Rabinovich, M. S.; Sutovskiy, V. M.  ORG: Physics Institute im. P. N. Lebedev, Academy of Sciences, SSSR (Fizicheskiy institut Akademii nauk SSSR)  TITLE: Feasibility of investigating a pinch discharge by using its intrinsic stimulated emission  SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu.  Prilozheniye, v. 5, no. 2, 1967, 55-57  TOPIC TAGS: Stimulated emission, plasma diagnostics, discharge plasma, plasma pinch, laser effect, but temperature plasma, plasma vialental plasma. Plasma vialental plasma of a where the existence of negative-temperature states in a high-temperature plasma of a where the existence of negative-temperature states in a high-temperature plasma of a where the instantion of a pinch discharge. This the use of this phenomenon to investigate the cumulation of a pinch discharge. This was done by measuring (with a Rogowski loop) the time correlation between the stimulated-emission pulse and the current pulse at the instant of discharge cumulation. The discharge current reached 20 kilosmp at 2 µsec duration, and the current density at the instant of cumulation reached 50 - 75 ka/cm². The stimulated-emission pulse was observed by mounting confocal dielectric-coated mirrors at the ends of the pulse was observed by mounting confocal dielectric-coated mirrors at the ends of the pulse was observed by mounting confocal dielectric-coated mirrors at the ends of the measurements show that the	产的技术。但由于国际政治的主义的主义的 18 18 18 18 18 18 18 18 18 18 18 18 18	98 C.		
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ORG: Physics Institute im. P. N. Lebedev, Academy 02 Sciences, institut Akademii nauk SSSR)  TITLE: Feasibility of investigating a pinch discharge by using its intrinsic stimulated emission  SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu.  SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu.  Prilozheniye, v. 5, no. 2, 1967, 55-57  TOPIC TAGS: stimulated emission, plasma diagnostics, discharge plasma, plasma pinch, laser effect, lift temperature plasma diagnostics, discharge plasma, plasma pinch, laser effect, lift temperature plasma diagnostics, discharge plasma, plasma pinch, abstract: This is a continuation of earlier work (Pis'ma ZhETF v. 3, 12, 1966),  ABSTRACT: This is a continuation of earlier work (Pis'ma ZhETF v. 3, 12, 1966),  Where the existence of negative-temperature states in a high-temperature plasma of a where the existence of negative-temperature states in a high-temperature plasma of a where the existence of negative-temperature states in a high-temperature plasma of a where the existence of negative-temperature states in a high-temperature plasma of a where the existence of negative-temperature states in a high-temperature plasma of a where the existence of negative-temperature states in a high-temperature plasma of a where the existence of negative-temperature states in a high-temperature plasma of a where the existence of negative-temperature states in a high-temperature plasma of a where the existence of negative-temperature states in a high-temperature plasma of a where the existence of negative-temperature states in a high-temperature plasma of a where the existence of negative-temperature states in a high-temperature plasma of a where the existence of negative-temperature states in a high-temperature plasma of a where the existence of negative-temperature states in a high-temperature plasma of a where the existence of negative-temperature plasma of a high-temperature plasma of a where the existence of negative-temperature states	ACC NR1 AP7004942			
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SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu.  Prilozheniye, v. 5, no. 2, 1967, 55-57  TOPIC TAGS: stimulated emission, plasma diagnostics, discharge plasma, plasma pinch, laser effect, his temperature plasma diagnostics, discharge plasma, plasma pinch, laser effect, his temperature plasma diagnostics, discharge plasma, plasma pinch, laser effect, his temperature plasma diagnostics, discharge plasma, plasma pinch, laser effect, his temperature plasma diagnostics, discharge plasma, plasma pinch, laser effect, his temperature plasma diagnostics, discharge vas discharge vas demonstrated. In this article the authors report strong-current pinch discharge was demonstrated. In this article the authors report strong-current pinch discharge the cumulation of a pinch discharge. This the use of this phenomenon to investigate the cumulation of a pinch discharge. This the use of this phenomenon to investigate the cumulation between the instant of discharge cumulation. The discharge current reached 20 kiloamp at 2 µsec duration, and the current tion. The discharge current reached 50 - 75 ka/cm². The stimulated-emission density at the instant of cumulation reached 50 - 75 ka/cm². The stimulated-emission pulse was observed by mounting confocal dielectric-coated mirrors at the ends of the discharge tube. The working gas was pure argon. The measurements show that the	ORG: Physics Institute im. P. N. Le institut Akademii nauk SSSR)	bedev, Academy of St	w using its intrinsic	
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ABSTRACT: This is a continuation of earlier working gas was pure argon. The high-temperature plasma of a where the existence of negative-temperature states in a high-temperature plasma of a where the existence of negative-temperature states in a high-temperature plasma of a where the existence of negative-temperature states in a high-temperature plasma of a where the authors report strong-current pinch discharge was demonstrated. In this article the authors report strong of a pinch discharge. This the use of this phenomenon to investigate the cumulation of a pinch discharge cumulation between the instant of discharge cumulation. The discharge current reached 20 kiloamp at 2 µsec duration, and the current tion. The discharge current reached 50 - 75 ka/cm². The stimulated-emission density at the instant of cumulation reached 50 - 75 ka/cm². The stimulated-emission density at the instant of cumulation reached 50 - 75 ka/cm². The stimulated-emission density at the instant of cumulation reached 50 - 75 ka/cm². The stimulated-emission density at the instant of cumulation reached 50 - 75 ka/cm². The stimulated-emission density at the instant of cumulation reached 50 - 75 ka/cm². The stimulated-emission density at the instant of cumulation reached 50 - 75 ka/cm². The stimulated-emission density at the instant of cumulation reached 50 - 75 ka/cm². The stimulated-emission density at the instant of cumulation reached 50 - 75 ka/cm². The stimulated-emission density at the instant of cumulation reached 50 - 75 ka/cm². The stimulated-emission density at the instant of cumulation reached 50 - 75 ka/cm².	TOPIC TAGS: stimulated emission, placed laser effect, ligh temperature placed	lasma diagnoscica, a	L. There v. 3, 12, 1966),	
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pulse was observed by mountaing of the pulse argon. The measurements show that the discharge tube. The working gas was pure argon.	stimulated-emission pulse and the tion. The discharge current reach density at the instant of cumulati	ed 20 kiloamp at 2 µm on reached 50 - 75 km	cc duration, and the current cm <sup>2</sup> . The stimulated-emission cod mirrors at the ends of the	
Card 1/2 UDC: none	pulse was observed by mounting con discharge tube. The working gas w	as pure argon. The	measurements show that the	-
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Furthermore, ger tion, but also a discharge cumula maximum. General capacitor, 0.4	as the plasma ation. However ation takes pl ur, charged to	front moves der, the emissible only at so high voltage trongly on the	turing the stag ion maximum coi sufficiently la es up to 45 kv) e discharge con	nt of current cur nt of maximum pir e immediately pre- ncides with the c rge currents (lar . The character ditions, so that as of plasma diag ower the emission	current rge discharge istics of the an investige	1
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THOR: Saar, M. M.; Papp, M. Kh.	Sutt, A. A.	or liquid aluminum
NUMBER Ref. zh. Metallurgiya, Ab	s. 9G126	
EF. SOURCE: Sb. nauchno-tekhn. s 965, 180-182	i e	1 1
OPIC TAGS: liquid metal pump, ox eramic coating  BSTRACT: The authors have ascert		that certain nonmetallic and
eramic substances exhibit satisfication of the series of sheet metal of sheet met	3 (SiC, B <sub>1</sub> C). A thin- coated on the inside	MgO), borides (CFB, AID), wall channel of a linearized in- my a thin layer of ceramic, de-
reloped at the NISETI Institute, a liquid aluminum. Compared with the energy coefficients are obtained gap between the stator lamination abstract]	hick-wall channels (10	0.0 mm and more), higher purp
SUB CODE: 13, 11	UDC: 699.7	1.04

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	(N) 1, 12040-66 EVIT (d)/EVIP (e)/EWIT (m)/EVIP (w)/EWIP (v)/T/EVIP (t)/EWIP (b)	
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	EWA(h)/ETC(m) IJP(c) JD/WW/WB/EM/DJ/WH  AUTHOR: Saar, H. Seh.; Teearu, NV:DA.; Papp, H. Kh.; Sutt. A. A.	3
	ORG: Polytechnic Institute, Tallinn (Politekhnicheskiy institut)	
	117	
	TITLE: Test of the thin walled channel of an induction pump for pumping liquid aluminum,	
$\{_{\underline{i}}\}_{i=1,\dots,n}$	SOURCE: Tallinn. Politekhnicheskiy institut. Trudy. Seriya A. no. 214	
	1964. Issledovaniye i proyektirovaniye elektromagnitnykh sredstv pere- meshcheniya zhidkikh metallov; sbornik trudov, no. 2, 123-130	
	TOPIC TAGS: liquid metal pump, aluminum, ceramic coating, electromagnetic pump	
	ABSTRACT: The thin walled (1-3 mm) channel, stamped out of heat re-	
	sistant sheet steel, was coated with a layer of ceramic material 100 µ thick (consisting of refractory oxides and carbides) to protect it from	
	attack by the liquid aluminum. The temperature of the channel during	
	the experiment was 750-850°C, the pressure developed by the pump/was 0.017 kg/cm <sup>2</sup> . The aluminum noved through the channel at 1.5 cm/sec.	
	After the test, no signs of corrosion were observed inside the channel. A close study of the ceramic material and base metal of the channel	,
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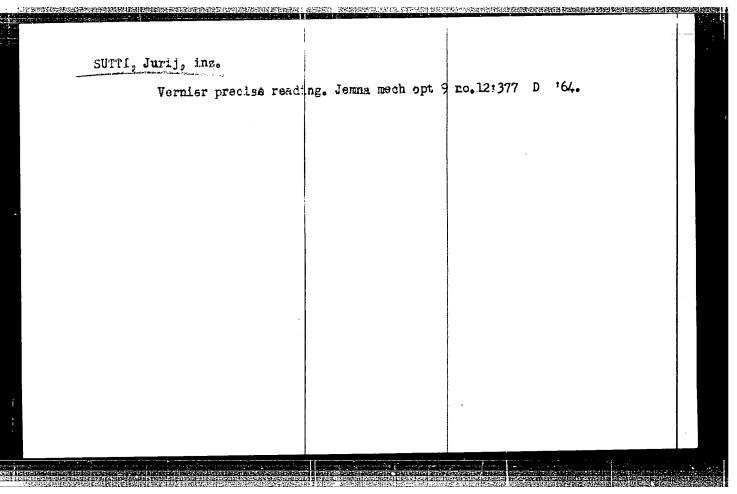
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ORG: Institute of	Technology, Kosice	(Vysoka skola te	chnicka)	B
TITLE: Volume dete	ermination by means	of plotting of p	oints from stereopair	·s
SOURCE: Geodeticky	v i kartograficky o	obzor, no. 8, 196	, 197–199	
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,	Droplet size	e distribution od of condense	n in dibutyl p ed nuclei. Ko	onthalate mist	s obtained no.4:487- (MIRA 17:2)	
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AUTHOR: Sutugin, A. G.  TITLE: Preparation of reproducible monodisperse aerosols with average particle	
SOURCE: Kolloidnyy zhurnal, v. 27, no. 5, 1965, 785-787  TOPIC TAGS: aerosol chemical diameter.	
ABSTRACT: The preparation of monodisperse uncharged aerosols of dioctyl sebacate disperse sodium chloride aerosol provided the condensation nuclei. The average	
were determined by the diffusion method. In most cases, the calculated concentration of this aerosol corresponded to a concentration of nuclei of 2 x 10 <sup>7</sup> cm <sup>-3</sup> .  Were plotted. After the aerosol with the diffusional settling of the aerosol	
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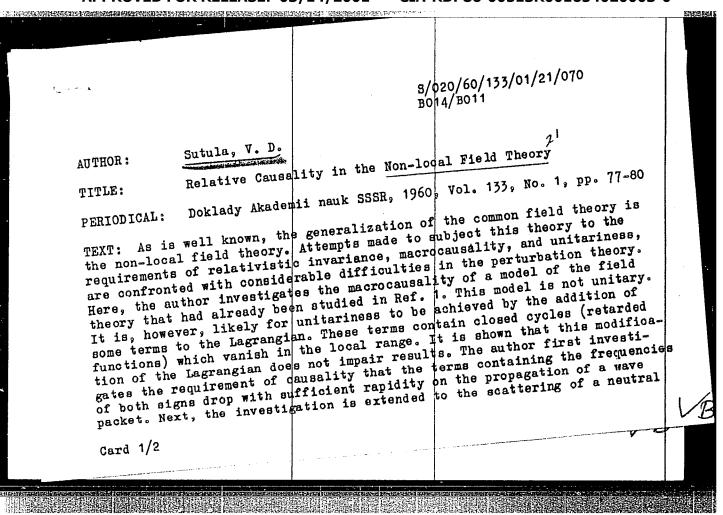
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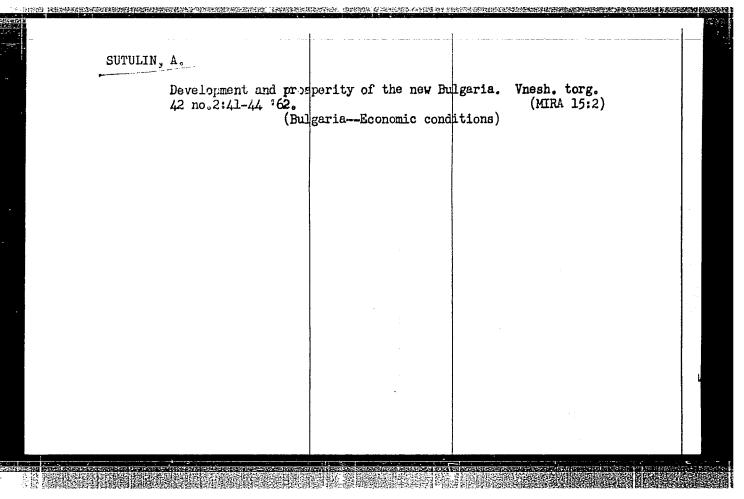


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sov/58-59-8-18527 Translated from: Referativnyy Zhurnal Fizika, 1959, Nr 8, p 213 (USSR) Sutulin, V.F. AUTHOR: Intermittent Generation in Split-Anode Magnetrons Uch. zap. Khar'kovsk un-t, 1958, 98, Tr. Fiz. otd. fiz.-matem. fak., TITLE: PERIODICAL: Vol 7, pp 335-347 The article investigates the conditions under which intermittent generation arises in split-anode magnetrons operating under conditions of static negative resistance. Contrary to the wide-spread belief that ABSTRACT: intermittent generation in a split-anode magnetron is due to the gaseous state of the tube, the author comes to the conclusion that the conditions for the rise of intermittent generation in split-anode magnetrons do not depend on a vacuum or the presence of tungsten vapors in the tube, but rather are determined by a dynamic volt-ampere characteristic, the course of which depends on the performance of the magnetron's generator and the quality factor of its oscillator circuit. Dynamic vol ampere characteristics are described for the cases of a good-quality and a poor-quality factor of the circuit. In the latter case a hysteresis loop Card 1/3

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Intermittent Generation in Split-Anode Magnetrons

is present in the dynamic volt-ampere characteristic, permitting one to obtain, in the case of certain values of the resistance r which is switched into the anode circuit, intermittent generation by the magnetron's generator. This intermittent generation is accompanied by relaxation oscillations in the circuit of the blocking capacitor and resistance r. A differential equation of the relaxation oscillations is worked out, and a criterion is formulated for obtaining intermittent generation. It is shown that for every value of the voltage of the source which is charging the anode, it is possible to change the magnetron over to conditions of intermittent generation, increasing the resistance r in a corresponding manner. A theoretical determination is made of the period of the relaxation oscillations. The study of the intermittent generation of split-anode magnetrons was carried out on two-segment and four-segment magnetrons with anode diameters of 5.10 mm and having diverse ratios of cathode diameter to anode diameter (  $0 = d_c/d_a = 0.015$ , 0.06, 0.25, 0.30, 0.40 and 0.60). The dynamic volt-ampere characteristics of these magnetrons were studied. The theoretically determined period of intermittent generation proved to be somewhat smaller than the experimentally measured period. Stable relaxation oscillations were obtained which had a frequency of up to 10 Mc. When these oscillations had a frequency of 1 Mc, their amplitude amounted to 20 to 25% of the anode voltage Ua, and at a frequency of 10 Mc to no less than 5% Card 2/3

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Intermittent Generation in Split-Anode	e Magnetrons		
of Ua. It was found that magnetrons we generation in a wide range of variation is explained by the fact that a magnetic citation of oscillations in a wide range a decrease in filament current increase	on of the magnetic fitron with a thick can age of variation of last ses the frequency of	thode provides a smooth ex- H/H <sub>cr</sub> . It is also shown that the intermittent generation.	
The bibliography contains 10 titles.	(Khar'kovsk. un-t,	SSSR) G.M. Gershteyn	
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sov/58-59-8-18528 Translated from: Referativnyy Zhurnal Fizika, 1959, Nr \$, p 214 (USSR) Sutulin, V.F. AUTHOR: The Phenomenon of Intermittent Generation in a Multicavity Magnetron TITLE: With a 3 cm Band at Lbw Anode Voltages Uch. Zap. Khar'kovsk. un-t, 1958, 98, Tr. Fiz. otd. fiz.-matem. fak., PERIODICAL: Vol 7, pp 349-354 In the course of the author's preceding study (abstract 18527), an ABSTRACT: experimental investigation was made of intermittent generation in multiresonator magnetrons. The models studied included laboratory magnetrons with a 3 cm band, containing 4, 8, 12 and 14 resonators and having a tungsten cathode and anodes with a diameter of 3.0 and 4.8 mm, as well as a factory magnetron of the "725-A" type. The laboratory magnetrons were prepared in glass flasks and evacuated down to a vacuum of 10-6 mm Hg. The following characteristics attending the induction of intermittent generation in multiresonator magnetrons were established as a result of the experiment. Intermittent generation is obtained at low anode voltages Ua (800-1,300 v). Card 1/2

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The Phenomenon of Intermittent Generation in a Multicavity Magnetron With a 3 cm Band at Low Anode Voltages

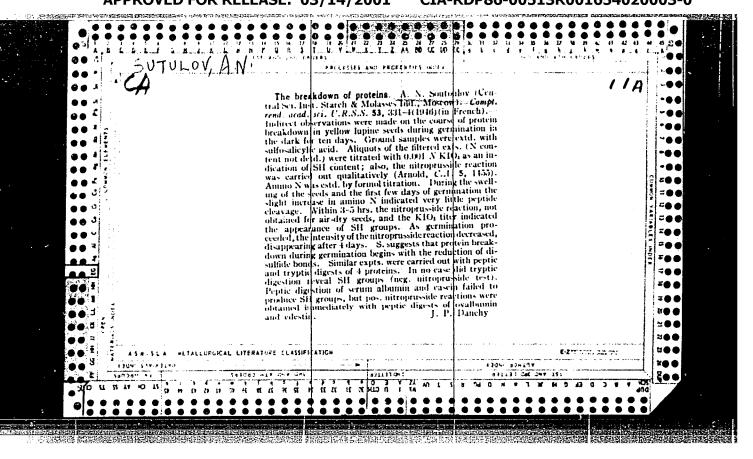
At a given value of  $U_a$  the regions of the excitation of intermittent generation are very narrow in relation to the variation of the magnetic field H, and the intermittent oscillations themselves arise at H  $\rightleftharpoons$  1.6 H<sub>Cr</sub>. In magnetrons without straps the voltampere characteristics have binary hysteresis loops, causing the presence of two forms of relaxation oscillations, which are explained by the skip in the forms of the high-frequency oscillations. Introducing bilateral straps eliminates the binarity of the hysteresis loop and permits one to get rid of the binarity of the relaxation oscillations. Experiments conducted on a magnetron with a removable cathode showed that intermittent generation arises only in multiresonator magnetrons with a sufficiently thin cathode ( $6 = d_c/d_a < 0.2$ ). The amplitude of the relaxation oscillations increases with a decrease in the number of slots. It proved possible to obtain relaxation oscillations with a frequency of up to 1.5 Mc. (Khar'kovsk. un-t SSSR).

G.M. Gershteyn

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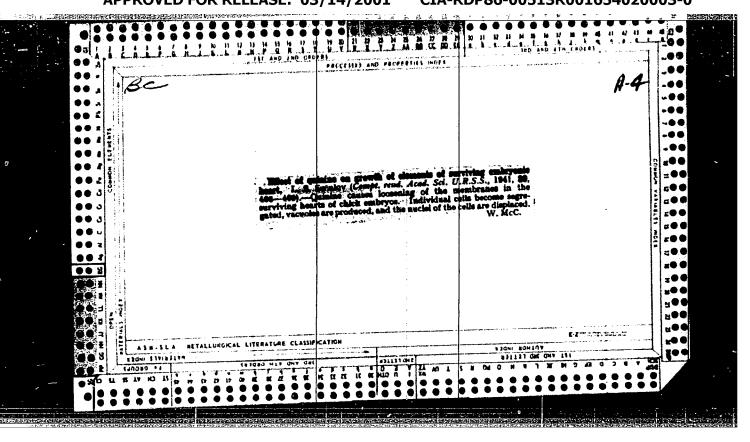
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	W. Kroner and W. Volksen have succeeded in isolating linoleic and linolenic acids from potato oil. (Naturwiss, 1942). These acids are indispensable for maximum biological activity of pyridoxine (vitamin B6). Since they cannot be synthesized in human organism potato has a food value not previously	•	
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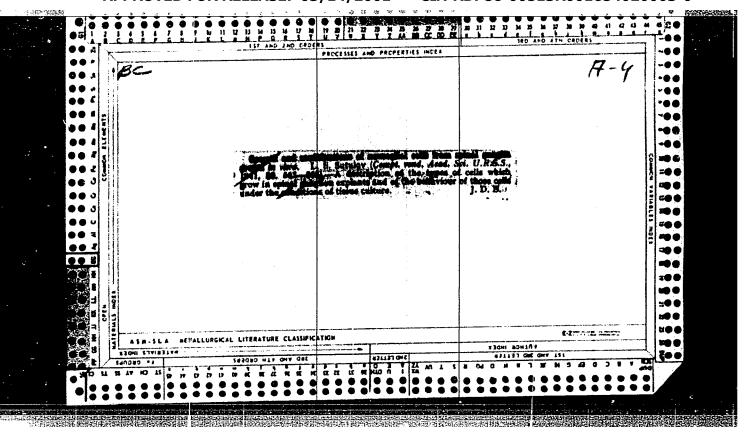
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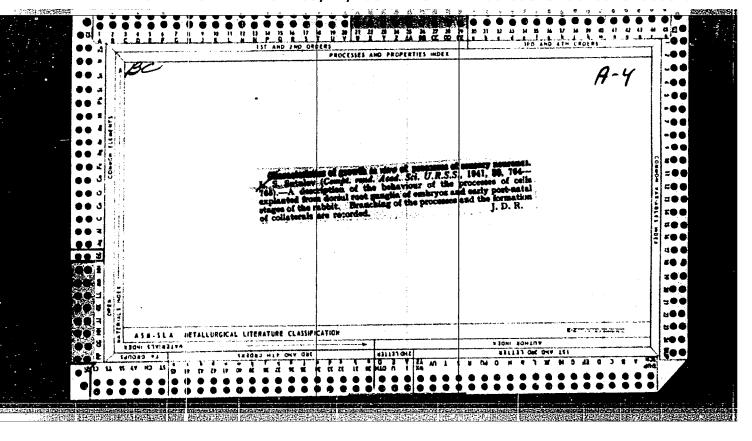
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SUT	ULOV, A.N.
	Role of oxidation in the senescence and death of seeds. Biul. Glav. bot. sada no.57:53-60 165. (MIRA 18:9)
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SUTULOV, L.S. and SUTULO	OV, G.L.	Normous Tisque in I	Experimental Condi	tions."
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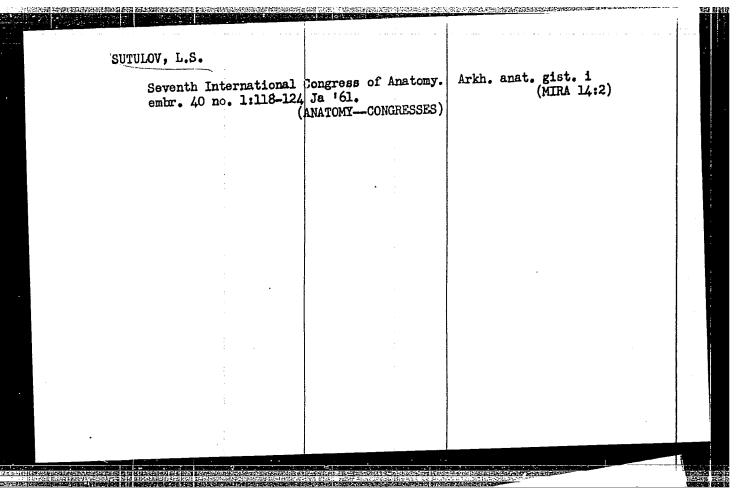
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(Lev Severianovich)		
"Material on the Study of Certain Basic Laws of the Development and		
Composition of missing Structure " (Dissertation) Academic degree of		
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	sov/20-121-4-45/54	
AUTHOR:	Sutulov, Yu. L.	
TITLE:		44
PERIODICAL:	Doklady Akademii nauk SSSR, 1958, Vol. 121, Nr 4, pp. 1702;	same
ABSTRACT:	subject the brain the problem of the now not been possible to	ral
	find an answer to this question. 15-20) as well as nerve to find an answer to this question. 15-20) as well as nerve to find an answer to this question. 15-20) as well as nerve to find an answer to this question.	The
	author investigated the ependyma of 25 ptigated 6 healthy author investigated the furthermore investigated 6 healthy author described for the same of	bes dyma
	different diseases; he furthermore dogs. The author description of the ependersons, for comparison he used persons, for comparison he used the structure of the ependers characteristic features of the structure of the ependent different places. In some cases the cells of the ependent different places. In some cases the cells of the ependent different places. At first glance the implement have lashes and basal appendages. At first glance the implement disgraphed that there are not many nerve elements in the elements.	-ossion
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The Innervation of the Ependymal Membrane of Encephalon Ventricles in Man

Only detailed investigations and the application of plane film preparations (ploskostnyye plenochnyye preparaty Pl.) convinced the author that this is not the case. It is true, however, that no nerve cells were found as they were described by other authors who had proved them in the ependyma of lower vertebrates and some mammals. Nerve fibers have not the same length and thickness; they are situated on different levels and do not on all places occur in equal amount. The author divides them into 3 groups: 1) Fibers with a large number of beadlelike swellings which enter the ependyma from the below situated cerebral tissue (Figs 1-4). 2) Immediately below the epithelium of the ependyma in the mass of the subepithelial layer thicker nerve fibers become visible (Fig 3). They may also have beadlelike swellings and can be traced very far. On some points they form bundles and grow into the ependyma from the soft cerebral meninges. 3) The bundles of nerve endings entering the ependyma from the lower situated cerebral tissue are rather thick; they take a certain way in the ependyma in order to leave it again. In contrast to group 2) they remain unramified. They occur in particularly large numbers in the roof ependyma of the central

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SOV/20-121-4-45/54 The Innervation of the Ependymel Membrane of Encephalon Ventricles in Man

part of the side ventricle and on other points. It was already several times presumed that the ependyma takes part in reception (Refs 13, 15, 16, 18). For this purpose the observed nerves and endings of the groups 1) and 2) may be used. There is no relation between group 3) and the innervation of the ventricle ependyme; it probably implies only commissures and conducting ducts. It may be assumed that the mentioned endings take part in the registration of the amount and composition of the cerebro-spinal liquid as well as in the control of their formation and resorption. There are 4 figures and 22 references, 8 of which are Soviet.

ASSOCIATION: Ryazanskiy meditsinskiy institut im. I. P. Pavlova (Medical Institute imeni I. P. Pavlov, Ryazan'

PRESENTED:

February 5, 1958, by K. M. Bykov, Member, Academy of Sciences,

SUBMITTED: Card 3/4

February 3, 1958

ABSTRACT: The inner surface of the human brain is more or less smooth and even with young healthy persons and covered all along by epithelial cells (Refs 1-4). With progressing age uneveness, protuberances, and deepenings appear on the ependymal membra which covers the cerebral ventricles. The ependyma becomes differently thick on various points. The said protuberances have been studied on many occasions (Refs 4-10). With human beings they appear at an age of about 40 to 50 years. Also other changes of the ependyma accur. The present paper is to describe the growth mentioned in the title at a normal and a pathological state. The material was taken from dead bodies of 6 practically healthy persons and from 14 bodies of person who suffered from a chronic moderate inner cerebral dropsy.	AUTHOR:	Sutulov, Yul L.	SOV/20-121-5-41/50
ABSTRACT: The inner surface of the human brain is more or less smooth and even with young healthy persons and covered all along by epithelial cells (Refs 1-4). With progressing age uneveness, protuberances, and deepenings appear on the ependymal membra which covers the cerebral ventricles. The ependyma becomes differently thick on various points. The said protuberances have been studied on many occasions (Refs 4-10). With human beings they appear at an age of about 40 to 50 years. Also other changes of the ependyma accur. The present paper is to describe the growth mentioned in the title at a normal and a pathological state. The material was taken from dead bodies of 6 practically healthy persons and from 14 bodies of person who suffered from a chronic moderate inner cerebral dropsy.	TITLE:	(Reaktivnyye razrastaniy	
and even with young healthy persons and covered all along by epithelial cells (Refs 1-4). With progressing age uneveness, protuberances, and deepenings appear on the ependymal membra which covers the cerebral ventricles. The ependyma becomes differently thick on various points. The said protuberances have been studied on many occasions (Refs 4-10). With human beings they appear at an age of about 40 to 50 years. Also other changes of the ependyma accur. The present paper is to describe the growth mentioned in the title at a normal and a pathological state. The material was taken from dead bodies of 6 practically healthy persons and from 14 bodies of person who suffered from a chronic moderate inner cerebral dropsy.	PERIODICAL:		SR, 1958, Vol. 121, Nr 5, pp. 916-91
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SOV/20-121-5-41/50 Reactive Growth of Tissue Elements of the Ependymal Membrane ganglionic tissue (Fig 1). The structure of the ependyma at dropsy depends on the duration of the pathological process. A number of data indicate, that peculiar compensating regenerative processes occur on the inner ventricular cerebral surfacetogether with the formation of organo-specific structures (Ref 14). Considerable changes in the nerve apparatus during the inher cerebral dropsy demonstrate the altered reception under condition of an increased pressure within the ventricles, and prove once more the role of the ependyma as an organ which participates in the registration and regulation of the amount and of the composition of the cerebro-spinal liquid There are 4 figures and 14 references, 8 of which are Soviet. Ryazanskiy meditsinskiy institut im. I. P. Pavlova (Institute ASSOCIATION: of Medicine imeni I. P. Pavlov, Ryazan') PRESENTED: February 5, 1958, by K. M. Bykov, Member, Academy of Sciences, USSR SUBMITTED: January 29, 1958 Card 2/2 

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brine and its nerveus ipperatus in neutral destate develorum and
hydrocophilms. On the problem of the epondymil membrane is a cone of
intr combrel reception." Ryszen!, 1959. 26 pp (Ryszen! Hed Inst in
Acad F.P. Pavlev. Chair of Pathological Anatomy). 200 copies
(IT '40-59, 106)

[Laboratory manual on pathological anatomy] Praktikum po pathologicheskoi anatomii; metodicheskoe uchebnoe posobie dlia studentov (v 2 chastiak). Riazani, Riazanskii med. in-t im. I.P.Pavlova. Pt.2.[Fathological anatomy of diseases (nosological forms)] Pathologicheskaia anatomiia boleznei (nozologicheskikh form). 1962. 173 p. (MIRA 17:1)		T HOUVATON	F not conzent. SIII	WIOV. Yu.L., red.	TO THE STATE OF TH	
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E193/E435

AUTHORS:

Butomo, D.G., Zedin, N.I. and Suturin, G.I.

TITLE:

Development of a method of production of thin chromium

bronze (alloy 5p X (BrKh)) sheet with a finely-

crystalline structure

PERIODICAL: Tsvetnyye metally, no.10, 1961, 69-76

TEXT: Up till the middle of 1960, heat treated chromium bronze sheet was produced by a method entailing a solution treatment at 980 to 1000°C, work-hardening by cold-rolling and ageing at 450°C. Some batches of material produced in this manner were found to have a coarsely-granular structure which caused frequent intercrystalline cracking during the subsequent forming operations. Hence the present investigation whose object was to determine the effect of various factors on the grain-size of chromium bronze sheet, treated to possess hardness not lower than 120 kg/mm<sup>2</sup>. Three grades of chromium bronze, containing 0.54, 0.66 and 0.79% Cr, were used in the experiments which consisted in measuring hardness (at room temperature and at 600°C), grain-size, electrical conductivity and oxidation resistance of specimens quenched from 800, 850, 900, 950 and 1000°C, deformed by cold-rolling to 40 50.

28948 5/136/61/000/010/002/003 Development of a method ... E193/E435 60 and 70% reduction in thickness, and aged at 300, 400, 450 and 500°c. The results obtained can be summarized as follows: 1) The grain-size of thermally and mechanically treated chromium bronze depends on its chromium content. Grain growth in alloys containing 0.5 and 0.65% Cr, begins at 850 and 900°C respectively, whereas an alloy with 0.8% Cr retains its finely crystalline structure even at 950°C. 2) The quantity of chromium retained in solid solution was approximately 0.2% irrespective of whether the solution treatment was carried out at 1000, 950 or 900°C. 3) For practical purposes, a separate solution treatment can be replaced by rapid cooling after hot-rolling without a significant decrease in the quantity of chromium retained in solid solution. This method was used in a large scale trial in which 3 tons of 4 to 5 mm thick sheet was produced. The last hot-rolling operation was finished at 850 to 880°C after which the alloy was quenched from this temperature, 0.2 to 0.24% Cr being retained in solid solution. After cold-rolling (67 to 73% reduction in thickness) and ageing, the metal had the following properties: Card 2/4

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28918 \$/136/61/000/010/002/003 Development of a method ... E193/E485 UTS - 45 to  $49 \text{ kg/mm}^2$ ; Brinell hardness - 120 to  $148 \text{ kg/mm}^2$ ; elongation - 14 to 17%; electrical conductivity - 65 to 71% of the electrical conductivity of copper. 4) Maximum hardness is attained by quenching from 1000°C and ageing at a temperature (400 to 450°C) depending on the preliminary cold deformation and duration of ageing. 5) The higher the degree of deformation after the solution treatment, the higher is the hardness after ageing; at the same time, a high degree of deformation brings about a decrease in the recrystallization (softening) temperature. 6) UTS of chromium bronze at high (600°C) temperatures is independent of the chromium content but decreases with decreasing temperature of the solution treatment. The optimum strength (UTS > 20 kg/mm<sup>2</sup>) at 600°C is attained after a solution treatment at 1000°C followed by cold-rolling to 70% reduction and ageing at 400°C. 7) Electrical conductivity of chromium bronze is independent of its chromium content and varies (in the aged condition) between 75 and 80% of the electrical conductivity of copper. In the case of the Card 3/4

Development of a method ...

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E193/E435

solution treated material, electrical conductivity decreases with increasing temperature of the solution treatment, being approximately 34 and 47% after quenching from 1000 and 900°C respectively.

8) The thickness of the surface layer in which chromium becomes oxidized at elevated temperatures depends on time at the given temperature. The thickness of the oxidized layer in an 8 mm thick strip held at 1000°C was 0.18, 0.26 and 0.59 mm after 15 min, 1 hour and 4 hours at the temperature, respectively.

4 tables and 2 Soviet references.

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136-8-5/21

AUTHORS: Sergevev, I.N., Candidate of Technical Sciences and
TITLE: Development of the Technology of the Production of Sheets of
MH5 Alloy for Shipbuilding (Razrabotka tekhnologii

proizvodstva listov iz splava MH5 dlya sudostroveniya)

PERIODICAL: Tsvetnye Metally, 1957, Nr 8, pp.26-30 (USSR)

For making large diameter tubes of corrosion-resistant ABSTRACT: MH5 alloy (5-6.5% Ni, 1'.0-1.4% Fe, 0'.3-0.8% Mn, remainder Cu) suitable for sea-water, it was decided at the "Krasnyy Vyborzhets" works to adopt welding of bent sheets. The authors describe the experimental production of sheets of the alloy (with the assistance of engineer A.V.Mitrushin) by rolling cast ingots starting at 920-950°C and finishing at 500°C. They illustrate the microstructures of specimens quenched from different temperatures (Figs.1,2), the appearance of bend-test specimens and the structure of a hot-rolled specimen. The influence of lead on the hot-bend tests is considered and results tabulated (Table 1). The mechanical and magnetic properties are tabulated (Table 2) as are results of toughness tests at various temperatures on hardened and annealed specimens (Table 3). The conclusions are that a satisfactory technology has been developed for pro-Card 1/2 ducing the sheets by double hot rolling; that the alloy

	•	SUTURIN, G.N., inzhener. MN5 alloy sheets for use	
in shipbuilding.	TSvet.met. 30 no.8:2	6-30 Ag 157. (MIRA 10:10)	
1. Zavod "Krasnyy (Copper-nickel-i:	Vyborzhets." ron alloysMetallog	raphy) (Rolling (Metalwork))	
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sov/136-58-12-16/22 Suturin, S.N., Engineer AUTHOR: Use of Reducing Roasting for Increasing Tellurium TITLE: Extraction (Primeheniye vosstanovitel'nogo obzhiga dlya povysheniya izvlecheniya tellura) Tsvetnyye Metally, 1958, Nr 42, pp 78 - 79 (USSR) PERIODICAL: ABSTRACT: At one Soviet works, tellurium is extracted from a copper sponge (19.35-25.02% Cu, 2.20-3.14% Te, 3.4-5.45%Se, 5.87-10.94% Pb and up to 1% total platinoids) and heavy metal hydroxides. In the ordinary procedure for tellurium extraction the roasting of the sponge with sodium carbonate is accompanied by oxidation of tellurium and selenium and the tellurium is not leached-out by water. The tellurium which remains in the form Na<sub>2</sub>TeO<sub>4</sub>, TsO<sub>3</sub> and, possibly, 2CuOTeO, is dissolved by treating the cake with 10% sulphuric acid. This also dissolves much copper which leads to the production of a copper-rich concentrate whose treatment is wasteful. In January-April, 1958, laboratory and larger-scale experiments with 50-g and 10-kg coppersponge charges, respectively, were carried out in which the cake, after removal of selenium, is roasted with sulphur Card 1/2

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Use of Reducing Roasting for Increasing Tellurium Extraction

to reduce the tellurium to the tetravalent state, the TeO<sub>2</sub> then being leached out with caustic soda solution (Table 2). The leached out with caustic soda solution acidified and the tellurium precipitated with sulphur dioxide. Further work showed that the extraction of tellurium into solution is directly proportional to the content of the element as Na<sub>2</sub>TeO<sub>4</sub>; satisfactory

recovery is possible from material containing not more than 1% Te; substantial reduction in the quantity of sulphur used for roasting and acceleration of the process can be achieved; tellurium quality can be improved by careful removal of water-soluble selenium compounds. The method is now undergoing full-scale tests. As the recovery of tellurium from the hydroxides raw material is efficient, the work was concentrated on the copper sponge.

There are 2 tables.

Card 2/2

POKR	OVSKIY, V.V.; SUT	URIN, S.N.; S	AMODELOV, A.H.		
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POKROVS!	KIY, V.V.; SAMODELOV,	A.P.; SUTURIN, S.N.		
	Trends and prospects TSvet. met. 38 no.9:4	for developments in 1-42 S 165.	the tin smelting process. (MIRA 18:12)	
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MAHDALIK, Miroslav, inz., CSc.; SUTY, Ladislav, inz.	
"Wood extractives and their significance to the pulp and paper industries" by W.E.Hillis. Reviewed by Miroslav Mahdalik, Ladislav Suty. Papir a celulosa 18 no.11:233-234 N'63.	

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